

INDEX
TO THE
MATHEMATICAL
GAZETTE

VOL. XLI.

FEBRUARY 1957, TO DECEMBER 1957
(Nos. 335-338)

TWO SHILLINGS AND SIXPENCE NET

LONDON
G. BELL AND SONS, LTD.

1957

THE
MATHEMATICAL
GAZETTE

Vol. 213

CONTENTS

1911

PRINTED IN GREAT BRITAIN BY ROBERT MACLEHOSE AND CO. LTD
THE UNIVERSITY PRESS, GLASGOW

INDEX

TO THE

MATHEMATICAL GAZETTE

No. 335, FEBRUARY 1957—No. 338, DECEMBER 1957

1. Articles.
2. Correspondence.
3. Gleanings.
4. Mathematical Notes.
5. News of Branches.
6. Plates.
7. Problems.
8. Pseudaria.
9. Reports on Colloquia etc.
10. Reviews.
11. Miscellaneous.

ARTICLES.

AUTHOR.	TITLE.	PAGE.
H. G. ApSimon.	Archimedean screw.	38
	Geodesic opposites on a regular tetrahedron.	95
C. C. H. Barker.	Some calculations in logic.	108
A. S. Besicovitch.	A net to hold a sphere.	106
B. C. Brookes.	School Marks.	258
E. M. Bruins.	Pythagorean triads in Babylonian mathematics.	25
T. Donnellan.	Visual aids in modern algebra.	241
S. M. Edmonds.	Sums of powers of the natural numbers.	187
J. G. Freeman.	Motion in a horizontal circle.	105
A. W. Fuller.	Universal rectilinear dials.	9
R. L. Goodstein.	The decision problem.	29
	The definition of number.	180
P. Hall.	The Mathematical Tripos.	198
D. F. Lawden.	Mathematical problems of astronautics.	168
J. Leech.	Equilibrium of sets of particles on a sphere.	81
E. H. Lockwood.	Negative pedal of the ellipse with respect to a focus.	254
D. Luke.	Stellations of the rhombic dodecahedron.	189
J. P. McCarthy.	The Cissoid of Diocles.	102
G. L. Parsons.	"Teaching the Teacher"—Presidential Address, 1956.	1

AUTHOR.	TITLE.	PAGE.
H. Perfect.	Forms and functions.	91
G. Temple.	The growth of mathematics—Presidential Address, 1957.	161
R. F. Wheeler.	Solving quadratics quickly.	98

CORRESPONDENCE.

AUTHOR.	TITLE.	PAGE.
T. A. S. Jackson.	Friction.	195
D. F. Lawden.	Friction.	112
J. K. Priestman.	"SAROGAHTYP"	195
E. J. F. Primrose.	A new technique.	112
D. E. Rutherford.	Re review.	196
S. Vajda.	Re review.	197
P. D. Zvengrowski.	A problem of 1903.	196

GLEANINGS.

PAGE.	NO.	PAGE.	NO.	PAGE.	NO.
24	1872-4	107	1882	194	1888-9
40	1875	139	1883	253	1890-3
60	1876	179	1884-6	270	1894-8
90	1877-8	186	1887	291	1899
97	1879-81				

MATHEMATICAL NOTES.

Nos. 2661-76 February 1957.

2677-2702 May 1957.

2703-19 October 1957

2720-38 December 1957.

AUTHOR.	NO.	TITLE.	PAGE.
W. L. Aldridge.	2737	Factorising large numbers and the verification of primes.	293
N. Altshiller-Court.	2724	Bibliographical note.	275
G. G. Alway.	2707	Crossing the desert.	209
H. G. ApSimon.	2697	Squash chances.	136
A. Bloch.	2720	"On casting out nines and elevens."	271
A. Buckley.	2677	Particular integrals of partial differential equations.	113
W. A. Capstick.	2684	On the Fibonacci sequence.	120
A. J. Carr.	2662	An algebraic proof.	43
	2663	On the arithmetico-geometric series.	44
	2688	Relations between coaxial circles and (i) a hyperbola, (ii) an ellipse.	122
		See S. Mather.	
R. Cooper.	2717	On a duplication formula.	217
	2725	Oscillating solutions of the duplication formula for the cosine.	276
J. Crampin.	2672	On Note 2449.	55

INDEX

v

AUTHOR.	No.	TITLE.	PAGE.
W. Davidson.	2711	Coincidence of the instantaneous centre and the acceleration centre in initial motion.	212
R. Deaux.	2710	À propos de la Note No. 2637.	212
W. J. Fearn.	2674	The exponential series derived from the law of growth.	57
A. H. Finlay.	2714	Proportional division.	214
	2728	Quadrant dissection.	279
T. M. Flett.	2694	A note on Taylor's theorem.	131
H. G. Forder.	2716	Duplication formulae.	215
R. L. Goodstein.	2695	A generalisation of Taylor's theorem.	133
P. Goodstein.	2718	The iterated-exponential of x .	219
R. Goormaghtigh.	2682	Interchanged poles and polars.	119
	2683	On "nedians".	120
	2699	A property of pairs of polygons.	138
G. P. M. Heseldon.	2729	The sum of a certain series involving binomial coefficients.	280
W. Hope-Jones.	2665	"A pretty series", (Notes 2419 and 2559).	47
P. W. M. John.	2723	Transport problem.	275
J. A. K. Kashangaki.	2686	Tests of divisibility.	122
F. R. Keogh.		See G. M. Peterson.	
J. Lambek and L. Moser.			
	2732	On relatively prime sequences.	287
B. V. Landau.	2691	Use of a "D-backwards" operator.	127
J. Leech.	2726	A problem on strings of beads.	277
J. Linfoot.	2738	The nine-point circle.	295
R. C. Lyness.	2731	Linear recurrence relations.	285
S. Mather and A. J. Carr.			
	2708	Approximate trisection of an angle by ruler and compasses.	210
F. G. Maunsell.	2664	Equivalent problems.	46
E. A. Maxwell.	2715	From scripts.	215
L. M. Milne-Thomson.	2702	Stoke's theorem for n -space.	139
D. S. Mitrinovitch.	2661	Sur une équation linéaire aux dérivées partielles à coefficients constants.	41
A. J. Moakes.	2680	Problems on "variable mass".	116
L. Moser.		See J. Lambek.	
E. H. Neville.	2675	Notes on conics, No. 21. The oblique pedals of the focus.	58
W. F. Newns.	2712	A proof of the formula for the arc-length of a curve.	213
A. N. Nicholson.	2678	Identities in sums of powers of integers.	114
	2679	A test for prime numbers.	115
T. H. O'Beirne.	2676	Can numerical integration be exact?	59
	2736	Coloured cubes: a new "Tantalizer".	292
R. V. Parker.	2696	A method of summing rational integral functions.	134
H. Perfect.	2727	On Note 2617.	279
G. M. Peterson and F. R. Keogh.			
	2692	Expansion of a certain infinite product.	129
E. J. F. Primrose.	2670	On Note 2486.	54

AUTHOR.	No.	TITLE	PAGE
E. J. F. Primrose	2681	The representation of projectives.	117
	2690	True or false.	125
A. K. Rajagopal.	2698	Some algebraic identities.	137
M. N. Rajalakshamma.	2689	On partial differential equations.	124
M. Rumney.	2685	A simple device for testing primality.	121
M. Sankaran.	2693	Note on some quadrature formulae.	130
J. Satterly.	2734	Nedians and the nedian hexagon.	289
W. W. Sawyer.	2671	Runs of successes and failures.	54
V. G. Sederman.	2705	Length of a perpendicular, (Note 2575).	206
C. M. Segedin.	2709	The quotient of two quadratics.	211
	2722	Approximate length of arc of ellipse.	273
R. Sibson.	2730	Some properties of the triangle in cartesian co-ordinates.	282
A. G. Sillitto.	2667	The converse of the theorem of Pythagoras.	50
A. Sutcliffe.	2721	A walk in the rain.	272
	2733	On sums of two squares.	289
B. Thwaites.	2666	An iterative construction for the trisection of a given angle.	48
C. O. Tuckey.	2704	A note on convergence, (Note 2560).	206
H. W. Unthank.	2669	Sphere rolling on a cone.	53
G. H. de Visme.	2735	Colouring sectors.	291
G. N. Vlahavas.	2713	The mid-points of the three diagonals of a quadrilateral are collinear.	214
R. M. Walker.	2706	Two theorems deduced from the theorems of Ceva and Carnot.	206
G. N. Watson.	2668	Comments on "A note on infinite series", (Note 2568).	51
	2719	Another pretty series, (Note 2620).	219
A. E. Western.	2673	Note on Fermat's methods of factorisation.	56
R. F. Wheeler.	2687	On $\Sigma r^3 = (\Sigma r)^2$.	122
	2701	A five-finger exercise in the scale of ten.	139
E. V. Whitfield.	2703	A curious result.	205
N. Y. Wilson.	2700	A tripos question.	138

NEWS OF BRANCHES.

BRANCH.	PAGE.	BRANCH.	PAGE.
Cardiff.	xix	North Staffordshire.	xxii
Exeter.	v	Nottingham.	xxiii
Leicester and County	iv and xix	Queensland.	v and xxiv
Liverpool Mathematical Society	xiii and xx	Southampton.	v
Manchester and District	xxi and xxii	Victoria	xxv
Midland Junior Mathematical Society	xxviii	Yorkshire.	xxiii

INDEX

vii

PLATES.

Mr. G. L. Parsona. President 1955-56.

Facing p. 1

Professor G. Temple. President 1956-57.

Facing p. 161

PROBLEMS.

AUTHOR.	PAGE.
D. J. Behrens.	101
H. M. Cundy.	iv
R. C. Lyness.	204

PSEUDARIA.

AUTHOR.	No.	TITLE	PAGE.
R. K. Guy.	13.	All straight lines are paralle.	140
E. J. F. Primrose.	12.		140
A. P. Rollett.	16.	Surface of revolution.	140
	17.	"Therefore $0=0$ and the identity is true."	257
	18.	Perimeter of an ellipse.	257
C. M. Segedin.	14.	Rectification.	140
	15.	$\tan \frac{1}{2}\pi$ and $\cot 0$ are infinite.	140

REPORTS ON COLLOQUIA.

TITLE.	REPORTER.	PAGE.
Conference for teachers of mathematics in schools.	H. M. Cundy.	iii
History of mathematics.	Prof. J. E. Hofmann, trans. by Dr. R. C. H. Young-Tanner.	201
On number theory.	B. J. Birch and J. W. Cassels.	202
On theory of functions of several complex variables.	Prof. H. Behnke, trans. by Dr. R. C. H. Young-Tanner.	203
Conference between schoolteachers and representatives from universities and from industry.	M. D. Parkes.	199

REVIEWS AND NOTICES.

AUTHOR.	TITLE.	REVIEWER.	PAGE.
J. K. Adams.	Basic Statistical Concepts.	F. Conway.	148
H. Arzelès.	La Cinématique Relativiste.	W. H. McCrea.	304
W. R. Ashby.	An Introduction to Cybernetics.	S. Vajda.	318
H. Bateman.	See H. L. Dryden.		
E. Bauer.	Champs de Vecteurs et de Tenseurs.	V. C. A. Ferraro.	301
H. Behnke and F. Sommer.	Theorie der analytischen Funktionen einer komplexen Veränderlichen.	T. A. A. Broadbent.	75
E. W. Beth.	L'Existence en Mathématiques. See J. Piaget.	R. L. Goodstein.	79

AUTHOR.	TITLE.	REVIEWER.	PAGE.
L. Bieberbach.	Analytische Fortsetzung.	<i>A. J. Macintyre.</i>	76
A. R. Bielby.	A First Geometry.	<i>W. Flemming.</i>	222
G. W. Blakey.	See T. G. C. Ward.		
W. Blaschke.	Einführung in die Geometrie der Waben.	<i>E. J. F. Primrose.</i>	35
	Kreis und Kugel.	<i>R. L. Goodstein.</i>	155
S. Bochner.	Harmonic Analysis and the Theory of Probability.	<i>J. L. B. Cooper.</i>	154
H. Boerner.	Darstellungen von Gruppen mit Berücksichtigung der Bedürfnisse der modernen Physik.	<i>H. O. Foulkes.</i>	73
A. D. and K. H. V. Booth.	Automatic Digital Calculators.	<i>M. V. Wilkes.</i>	233
É. Borel and A. Chéron.	Théorie Mathématique du Bridge à la Portée de Tous.	<i>B. C. Brookes.</i>	65
N. Bourbaki.	Elements de Mathématique. Book I.	<i>R. L. Goodstein.</i>	143
L. Brand.	Advanced Calculus.	<i>T. A. A. Broadbent.</i>	64
W. Briggs and G. H. Bryan.	Tutorial Algebra. Vol. II.	<i>R. L. Goodstein.</i>	314
L. Brillouin and M. Parodi.	Propagation des Ondes dans les Milieux Periodiques.	<i>H. Fröhlich.</i>	224
G. H. Bryan.	See W. Briggs.		
R. D. Carmichael.	Groups of Finite Order.	<i>R. L. Goodstein.</i>	224
H. Cartan and S. Eilenberg.	Homological Algebra.	<i>I. M. James.</i>	310
M. L. Cartwright.	The Mathematical Mind.	<i>R. L. Goodstein.</i>	67
	Integral Functions.	<i>W. K. Hayman.</i>	152
A. Chéron.	See É. Borel.		
G. Choquet.	See J. Piaget.		
L. J. Chu.	See J. A. Stratton.		
C. B. Clapham.	Arithmetic for Engineers.		69
F. J. Corbató.	See J. A. Stratton.		
T. Dantzig.	The Bequest of the Greeks.	<i>E. H. Lockwood.</i>	307
J. Dieudonné.	See J. Piaget.		
H. Dingle.	The Scientific Adventure.	<i>C. V. Durell.</i>	296
J. Dollon.	Problèmes d'Agrégation.	<i>E. J. F. Primrose.</i>	240
H. L. Dryden, F. P. Murhaghan and H. Bateman.	Hydrodynamics.	<i>T. A. A. Broadbent.</i>	231
P. Dubreil.	Algèbre. Tome I.	<i>M. P. Drazin.</i>	61
G. F. D. Duff.	Partial Differential Equations.	<i>E. T. Copson.</i>	235
A. Duschek and A. Hochrainer.	Grundzüge der Tensorrechnung in analytischer Darstellung.	<i>H. S. Ruse.</i>	62
S. Eilenberg.	See H. Cartan.		
A. Einstein.	Investigations on the Theory of the Brownian Movement.	<i>T. A. A. Broadbent.</i>	231
A. Erdélyi.	Asymptotic Expansions.	<i>R. A. Rankin.</i>	231

INDEX

ix

AUTHOR.	TITLE.	REVIEWER.	PAGE.
Euclid.	Euclid's Elements. Trans. by Sir Thomas Heath.	<i>T. L. Goodstein.</i>	80
S. V. Fagg.	Differential Equations.	<i>R. L. Goodstein.</i>	303
L. R. Ford.	Differential Equations.	<i>C. G. Paradine.</i>	66
J. Fourier.	The Analytical Theory of Heat.	<i>R. L. Goodstein.</i>	224
R. Garnier.	Cours de Cinématique. Vol. II.	<i>T. J. Willmore.</i>	225
C. Gattegno.	See J. Piaget.		
L. M. Graves.	The Theory of Functions of Real Variables.	<i>R. L. Goodstein.</i>	227
W. Gröbner.	Matrizenrechnung.	<i>L. Mirsky.</i>	151
W. Haack.	Elementare Differentialgeometrie.	<i>D. E. Rutherford</i>	149
J. Hannah and R. C. Stephens.	Examples in Mechanical Vibrations.	<i>A. Buckley.</i>	305
G. Hamel.	Mechanik der Continua.	<i>T. A. A. Broadbent.</i>	221
G. Hasenjaeger.	See T. Skolem.		
C. Hastings, Jr.	Approximations for Digital Computers.	<i>R. A. Brooker.</i>	73
W. Heitler.	Elementary Wave Mechanics with Applications to Quantum Chemistry.	<i>E. R. A. Peeling.</i>	313
L. Henkin.	See T. Skolem.		
H. Hertz.	The Principles of Mechanics.	<i>T. A. A. Broadbent.</i>	231
A. Heyting.	Intuitionism. An Introduction.	<i>R. L. Goodstein.</i>	225
B. Higman.	Applied Group-Theoretic and Matrix Methods.	<i>D. E. Rutherford.</i>	77
Hirschmann and Widder.	The Convolution Transform.	<i>D. B. Sumner</i>	71
F. Hirzebruch.	Neue Topologische Methoden in der Algebraischen Geometrie.	<i>J. A. Todd.</i>	230
A. Hochrainer.	See A. Duschek.		
J. D. Hodson.	Comprehensive Mathematics.	<i>J. K. Dudley.</i>	160
G. Hoheisel.	Gewöhnliche Differentialgleichungen.	<i>R. L. Goodstein.</i>	315
F. Hohenburg.	Konstruktive Geometrie für Techniker.	<i>F. T. Chaffer.</i>	306
D. A. Holland.	Oxford Graded Arithmetic Practice. Books Five and Six.	<i>K. Sowden.</i>	319
J. E. Jayasuriya.	Statistical Calculations for Teachers.	<i>F. Conway.</i>	148
F. John.	Plane Waves and Spherical Means applied to Partial Differential Equations.	<i>F. G. Friedlander.</i>	153
B. W. Jones.	The Theory of Numbers.	<i>R. L. Goodstein.</i>	143
G. O. Jones, J. Rotblat and G. J. Whitrow.	Atoms and the Universe.	<i>C. A. Haywood.</i>	304
W. Kaplan.	Lectures on Functions of a Complex Variable.	<i>W. W. Rogosinski.</i>	72
J. L. Kelley.	General Topology.	<i>P. J. Hilton.</i>	156
D. E. Kibbey.	See H. W. Reddick.		
A. A. Klaf.	Calculus Refresher for Technical Men. Trigonometry Refresher for Technical Men.	<i>R. L. Goodstein.</i>	320
F. Klein.	Famous Problems of Elementary Geometry.	<i>R. L. Goodstein.</i>	80

AUTHOR.	TITLE.	REVIEWER.	PAGE.
K. Knopp.	Infinite Sequences and Series.	<i>R. L. Goodstein.</i>	234
Z. Kopal.	Numerical Analysis.	<i>A. Fletcher.</i>	232
G. Kreisel.	<i>See T. Skolem.</i>		
A. Landé.	Foundations of Quantum Theory.	<i>G. Temple.</i>	64
A. Lichnerowicz.	<i>See J. Piaget.</i>		
C. C. Lin.	The Theory of Hydrodynamic Stability.	<i>T. V. Davies.</i>	223
J. D. C. Little.	<i>See J. A. Stratton.</i>		
J. Łoś.	<i>See T. Skolem.</i>		
R. H. Macmillan.	Automation.	<i>R. L. Goodstein.</i>	240
H. P. Manning.	Geometry of Four Dimensions.	<i>R. L. Goodstein.</i>	224
W. T. Martin and E. Reissner.	Elementary Differential Equations.	<i>R. L. Goodstein.</i>	155
N. W. McLachlan.	Ordinary Non-linear Differential Equations in Engineering and Physical Sciences.	<i>T. A. A. Broadbent.</i>	232
K. Menger.	Calculus : A Modern Approach.	<i>R. L. Goodstein.</i>	79
L. Mirsky.	An Introduction to Linear Algebra.	<i>W. Ledermann.</i>	239
A. Monjallon.	Initiation au Calcul Matriciel.	<i>R. L. Goodstein.</i>	800
D. Montgomery and L. Zippin.	Topological Transformation Groups.	<i>R. O. Gandy.</i>	141
P. M. Morse.	<i>See J. A. Stratton.</i>		
F. P. Murnaghan.	<i>See H. L. Dryden.</i>		
H. E. Newell, Jr.	Vector Analysis.	<i>D. E. Rutherford.</i>	150
G. H. R. Newth and J. S. Smith.	School Algebra.	<i>J. W. Colley.</i>	149
K. L. Nielson.	Methods in Numerical Analysis.	<i>T. H. O'Beirne.</i>	300
E. Nievergelt.	<i>See B. L. van der Waerden.</i>		
C. S. Ogilvy.	Through the Mathescope.	<i>R. L. Goodstein.</i>	222
A. H. G. Palmer and K. S. Snell.	Mechanics.	<i>A. J. Moakes.</i>	312
M. Parodi.	<i>See L. Brillouin.</i>		
O. Perron.	Die Lehre von den Kettenbrüchen, Vol. I.	<i>G. N. Watson.</i>	309
I. G. Petrovsky.	Lectures on Partial Differential Equations. Trans. by A. Shenitzer.	<i>E. T. Copson.</i>	235
J. Piaget, E. W. Beth, J. Dieudonné, A. Lichnerowicz, G. Choquet and C. Gattegno.	L'Enseignement des Mathématiques.	<i>R. L. Goodstein.</i>	68
G. Pickert.	Lineare Algebra. Normalformen von Matrizen.	<i>W. Ledermann.</i>	147
C. T. Rajagopal and V. R. Srinivasaraghavan.	An Introduction to Analytical Conics.	<i>E. J. F. Primrose.</i>	298
H. W. Reddick and D. E. Kibbey.	Differential Equations.	<i>R. L. Goodstein.</i>	304
C. Reid.	From Zero to Infinity.	<i>R. L. Goodstein.</i>	317
E. Reissner.	<i>See W. T. Martin.</i>		
R. Riesz and B. Sz. Nagy.	Functional Analysis.	<i>T. A. A. Broadbent.</i>	68
F. O. Ringleb.	Mathematische Formelsammlung.	<i>R. L. Goodstein.</i>	317
A. Robinson.	Complete Theories.	<i>R. L. Goodstein.</i>	303

INDEX

xi

AUTHOR.	TITLE.	REVIEWER.	PAGE.
A. Robinson.	<i>See</i> T. Skolem.		
R. Rotblat.	<i>See</i> G. O. Jones.		
L. Roth.	Algebraic Threefolds.	<i>D. W. Babbage.</i>	74
R. Rothe.	Höhere Mathematik für Mathematiker, Physiker, Ingenieure. Vol. VII. Pre- pared by W. Schmeidler.	<i>T. A. A. Broadbent.</i>	157
B. A. W. Russell.	An Essay on the Foundations of Geo- metry.	<i>R. L. Goodstein.</i>	319
H. von Sanden.	Praktische Mathematik.	<i>J. C. W. De La Bere.</i>	156
J. B. Scarborough.	Numerical Mathematical Analysis.	<i>A. C. Aitken.</i>	312
L. Schläfli.	Gesammelte Mathematische Abhand- lungen.	<i>R. L. Goodstein.</i>	155
W. Schmeidler.	<i>See</i> R. Rothe.		
B. Schoenberg.	<i>See</i> A. Scholz.		
A. Scholtz and B. Schoenberg.	Einführung in die Zahlentheorie.	<i>A. Fröhlich.</i>	76
T. Skolem, G. Hasenjaeger, G. Kreisel, A. Robinson, Hoa Wang, L. Henkin and J. Loé.	Mathematical Interpretation of Formal Systems.	<i>R. L. Goodstein.</i>	158
W. M. Smart.	Foundations of Analytical Geometry.	<i>E. J. F. Primrose.</i>	297
J. S. Smith.	<i>See</i> G. H. R. Newth.		
I. N. Sneddon.	Special Functions of Mathematical Physics and Chemistry.	<i>T. M. MacRobert.</i>	222
K. S. Snell.	<i>See</i> A. H. G. Palmer.		
F. Sommer.	<i>See</i> H. Behnke.		
A. Speiser.	Die geistige Arbeit.	<i>M. H. Löb.</i>	310
R. C. Stephens.	<i>See</i> J. Hannah.		
J. A. Stratton, P. M. Morse, J. L. Chu, J. D. C. Little and F. J. Corbató.	Spherical Wave Functions.	<i>A. Fletcher.</i>	313
K. Strubecker.	Einführung in die höhere Mathematik. Vol. I.	<i>R. L. Goodstein.</i>	303
V. R. Srinivasaraghavan.	<i>See</i> C. T. Rajagopal.		
F. J. Swan.	<i>See</i> C. O. Tuckey.		
J. L. Synge.	Relativity: the Special Theory.	<i>W. H. McCrea.</i>	237
B. Sz-Nagy.	<i>See</i> F. Riesz.		
A. Tarski.	Logic, Semantics, Metamathematics. Trans. by J. H. Woodger.	<i>R. L. Goodstein.</i>	228
	Ordinal Algebras.	<i>R. L. Goodstein.</i>	302
H. A. Thurston.	The Number System.	<i>R. L. Goodstein.</i>	158
L. H. C. Tippett.	Statistics.	<i>C. G. Paradine.</i>	70
M. Tonnelat.	La Théorie du Champ Unifié D'Einstein et quelques-uns de ses Développe- ments.	<i>W. H. McCrea.</i>	308
J. Topping.	Errors of Observation and their Treat- ment.	<i>C. A. Haywood.</i>	305
A. A. Townsend.	The Structure of Turbulent Shear Flow.	<i>O. M. Phillips.</i>	235

AUTHOR.	TITLE.	REVIEWER.	PAGE.
C. O. Tuckey and F. H. Swan.	Geometry for Sixth Forms	<i>J. W. Hesselgreaves.</i>	141
S. Vajda.	The Theory of Games and Linear programming.	<i>R. L. Goodstein.</i>	221
B. L. van der Waerden and E. Nievergelt.	Tafeln zum Vergleich Zweier Stichproben mittels X-test und Zeichentest.	<i>G. A. Barnard.</i>	298
Hao Wang.	See T. Skolem.		
T. G. C. Ward and G. W. Blakey.	The Slide Rule for Students of Science and Engineering.	<i>R. L. Goodstein.</i>	63
R. W. Weitzenböck.	Der vierdimensionale Raum.	<i>T. J. Willmore.</i>	316
Selecta Hermann Weyl.		<i>R. L. Goodstein.</i>	227
G. J. Whitrow.	See G. O. Jones.		
Widder.	See Hirschmann.		
H. Wittich.	Neuere Untersuchungen über eindeutige analytische Funktionen.	<i>W. K. Hayman.</i>	152
L. Zippin.	See D. Montgomery.		
A. Zygmund.	Trigonometrical Series.	<i>W. W. Rogosinski.</i>	72
Colloque sur la Théorie des Nombres.	Bruxelles 1955.	<i>H. Heilbronn.</i>	317
Eight and Nine Place Tables of Elliptical Functions. (Compiled by M. Schuler and H. Gebelein).		<i>A. Fletcher.</i>	145
Éléments de Mathématique, XVIII and XIX. Livre V, Espaces Vectoriels Topologiques.		<i>F. G. Friedlander.</i>	154
Encyclopaedia of Physics. Edited by S. Flugge.		<i>R. L. Goodstein.</i>	226
Five Place Tables of Elliptical Functions. (Compiled by H. Schuler and H. Gebelein).		<i>A. Fletcher.</i>	145
German-English Mathematical Vocabulary. By S. Macintyre and E. White.		<i>R. L. Goodstein.</i>	302
High Speed Aerodynamics and Jet Propulsion. Vol I. Edited by F. D. Rossini.		<i>E. A. Guggenheim.</i>	70
Index mathematischer Tafelwerke und Tabellen.		<i>A. Fletcher.</i>	146
Nichtlineare Regelungsvoränge. Edited by W. Hahn.		<i>T. A. A. Broadbent.</i>	312
Proceedings of the Second Symposium in Linear Programming. Washington D.C. 1955.		<i>S. Vajda.</i>	69
Proceedings of the Second International Congress of the International Union for the Philosophy of Science. Vols. I-V.		<i>R. L. Goodstein.</i>	228
Progress in Nuclear Energy. Edited by R. A. Charpie, J. Horowitz, D. H. Hughes and D. J. Littler. Series I, Physics and Mathematics, Vol. I.		<i>H. W. B. Skinner.</i>	229
Rectangular-Polar Conversion Tables. (Compiled by E. H. Neville).		<i>A. Fletcher.</i>	234
Report of a Conference on Mathematical Education in South Asia held in Bombay in February 1956.		<i>R. L. Goodstein.</i>	302
Symposium on Monte Carlo Methods. Edited by H. A. Meyer.		<i>S. Vajda.</i>	318
Tables of Weber Parabolic Cylinder Functions. Edited by J. C. P. Miller.		<i>A. Fletcher.</i>	144

INDEX
MISCELLANEOUS.

xiii

SUBJECT.
Books for Review.
For Sale and Wanted.
Gifts to the Library.
Report of Council for 1956.

PAGE
vi, xxxix
xi, xxviii and xi, 204, xxviii
xxxiii
i